

**Programming Languages Chapter 13 Discovering Computers**

1. What is a third generation programming language?

Procedural language a programmer uses with a series of English-like words to write instructions.

2. Give three examples of third generation languages?

ADD stands for addition.

PRINT means to print.

CHK DSK means to check the disk.

3. What generation language is assembly?

The second generation language.

4. What is object oriented programming?

A tool used to implement an object oriented design.

5. Define three object oriented programming languages:

“**Java** is an object-oriented programming language developed by Sun Microsystems. When programmers compile a Java program, the resulting object code is called byte code, which is machine independent. Java uses a just-in-time (JIT) compiler to convert the byte code into machine-dependant code that is executed immediately.”

“The **C** programming language, developed in the early 1970’s by Dennis Ritchie at Bell Laboratories, originally was designed for writing system software.”

**C#** is an object oriented programming language based on C++. Like Java C# uses a JIT compiler but its resulting code is called (MSIL).

Page 696 Ethics and Issues: Read Is Beta Testing out of Hand?

What is Beta Testing? Would you participate in beta testing software on your pc? Why or why not? Are Software manufacturers being honest about their intentions in their beta testing? If not, in what way? Is it reasonable for software manufacturers to beta test their software for the general public? If so, for how long?

Beta testing is when a company and/or software designer releases the latest version of their software for free, but they are only demo versions which are not totally debugged and some may only last for a certain period of time. I would try beta testing on my home pc and I have in the past. I participated in beta testing because there was a program that I really needed for a short amount of time and I couldn't afford the full version. I downloaded the beta and I used the program for what was needed and I was very pleased with the quality and quickness of the program. Yes they are being honest they do want your money!! Yes it is reasonable because you could try the beta for free if you planned on buying a program and test it out before you buy it giving you a better opinion on what you're paying for. They should do it until they have enough feedback to where the program is debugged and people are ready and willing to buy the program.